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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,939	06/07/2007	Takayuki Ohnuma	060419	1457
	7590 06/22/201 TOS & HANSON, LL	EXAMINER		
1420 K Street, N.W.			OMGBA, ESSAMA	
4th Floor WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			3726	
			MAIL DATE	DELIVERY MODE
			06/22/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/583,939	OHNUMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	ESSAMA OMGBA	3726			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
 1) ☐ Responsive to communication(s) filed on 11 Appears 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under Expression 	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 14-19 is/are withdraw 5) ☐ Claim(s) 2 and 3 is/are allowed. 6) ☐ Claim(s) 1 and 4-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the off Replacement drawing sheet(s) including the correction of the off the oath or declaration is objected to by the Example 11).	epted or b) \square objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/22/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of the invention of Group I, claims 1-13, in the reply filed on April 11, 2011 is acknowledged.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 8-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4, 8 and 11 recite the limitation "the diameter of an inner peripheral portion of the member" in lines 3-4 of each of the claims. There is insufficient antecedent basis for this limitation in the claims.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Simon (US Patent 4,435,972).

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Simon discloses a method of forming a member 11 having an inside-diameter portion with a smaller diameter (fig. 1), the method comprising forming a large-diameter recess in a material (bore in section 13a in fig. 2), machining the recess (col. 2, lines 49-61) and swaging the material from an outside by inserting a mandrel having a diameter equal to a diameter of an inner peripheral portion of an aimed member (col. 2, lines 62-68 and figs. 3 and 4).

Allowable Subject Matter

- 6. Claims 2 and 3 are allowed.
- 7. Claims 4-13 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 8. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach a method of forming a member having an undercut, the method comprising forming a recess having a diameter larger than a diameter of a diameter of an inner peripheral portion of the member, forming an undercut at an inner periphery of the recess, swaging from an outside the material into which a mandrel had been inserted so that an inside diameter of the material is decreased to an outside diameter of the mandrel with the undercut left, these in combination with the rest of the limitations in the claims.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ESSAMA OMGBA whose telephone number is (571)272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Essama Omgba/ Primary Examiner, Art Unit 3726

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